

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/055604 A1

(51) International Patent Classification⁷: **H04N 7/173,**
H04L 12/16, 12/66

(21) International Application Number:
PCT/CA2004/002082

(22) International Filing Date: 6 December 2004 (06.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/727,857 4 December 2003 (04.12.2003) US

(71) Applicant (for all designated States except US): **DIGITAL ACCELERATOR CORPORATION** [CA/CA];
1255 West Pender Street, Vancouver, British Columbia
V6E 2V1 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WANG, Meng**
[CA/CA]; c/o 1255 West Pender Street, Vancouver, British
Columbia V6E 2V1 (CA). **WANG, Jian** [CN/CA]; C/o
1255 West Pender Street, Vancouver, British Columbia

V6E 2V1 (CA). **LUO, Ying** [CA/CA]; #1012-1477 Mississauga Valley Boulevard, Mississauga, Ontario L5A 3Y4 (CA). **CHENG, Ignatius** [CA/CA]; 4433 Portland Street, Burnaby, British Columbia V5J 2N8 (CA). **KOAT, Peter** [CA/CA]; 4433 Portland Street, Burnaby, British Columbia V3W 1M5 (CA).

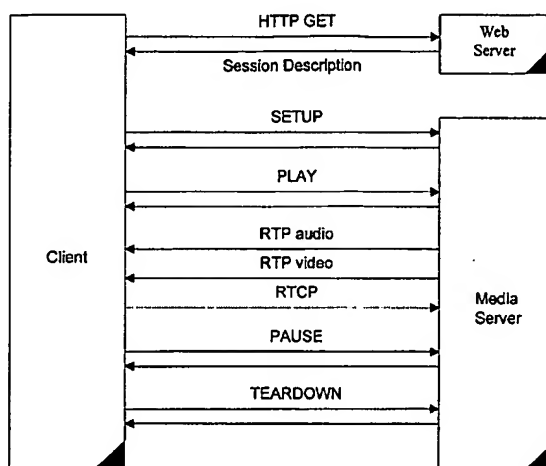
(74) Agent: **MBM & CO.**; 2200-200 Granville Street, Vancouver, British Columbia V6C 1S4 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: SYSTEM AND METHOD PROVIDING ENHANCED FEATURES FOR STREAMING VIDEO-ON-DEMAND



(57) Abstract: The present invention provides a system and method for providing enhanced features for streaming video-on-demand systems. The system comprises a media server and a client player, wherein a user can select a desired video for transmission from the media server to the client player for subsequent display for the user via the client player. The system comprises a mechanism that enables a user to interactively select a desired new starting point for the display of the selected video signal. The mechanism is provided by a first and second series of searchable index frames, wherein the first series is generated by the media server during transmission of the selected video signal and the second series is generated by the client player during receipt of the selected video signal. Upon receipt by the client player of the desired new starting point, the first or second series are accessed in order to identify a required searchable index frame that best represents the desired new starting point. Display of the video by the client player subsequently commences from the required searchable index frame.

WO 2005/055604 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*